APPLICATION NO. 09/826,117

INVENTION: Hybrid Complex Walsh Codes for CDMA

INVENTOR: Urbain A. von der Embse

DRAWINGS AND PERFORMANCE DATA

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FIG. 1 CDMA Transmitter: Block Diagram

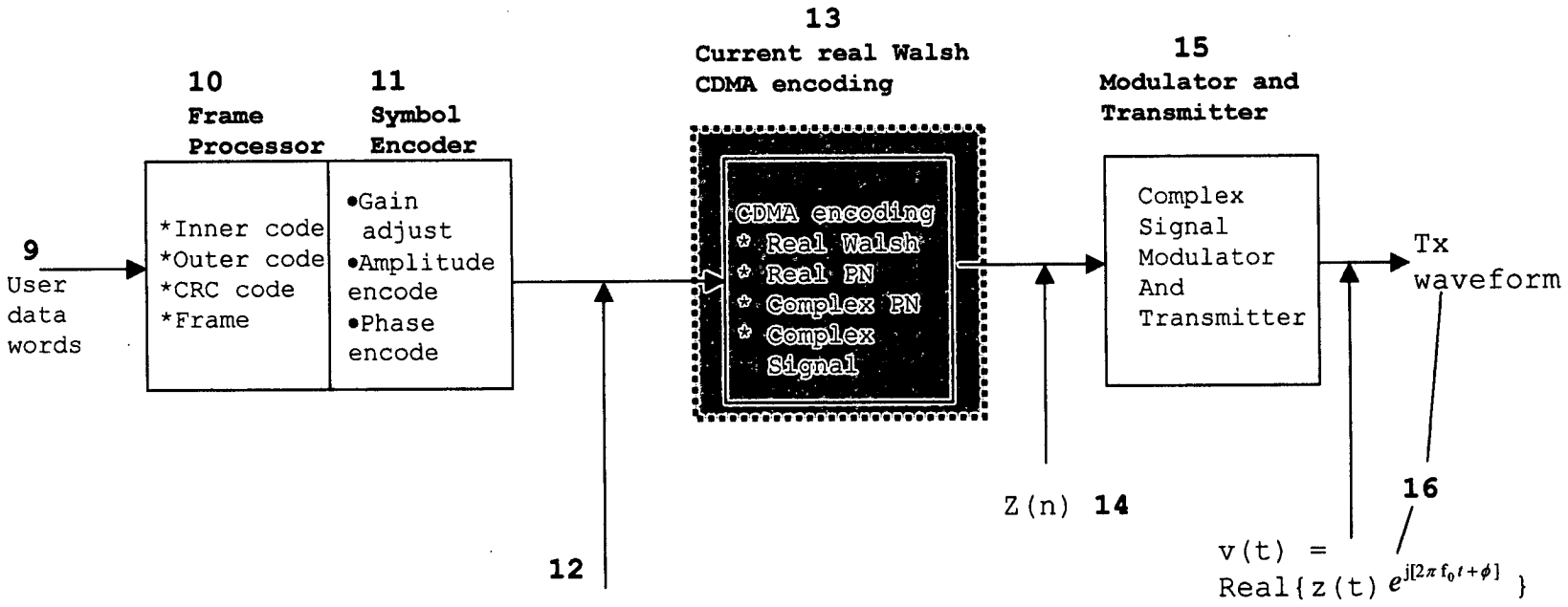

FIG. 1 CDMA Transmitter: Cellular Application

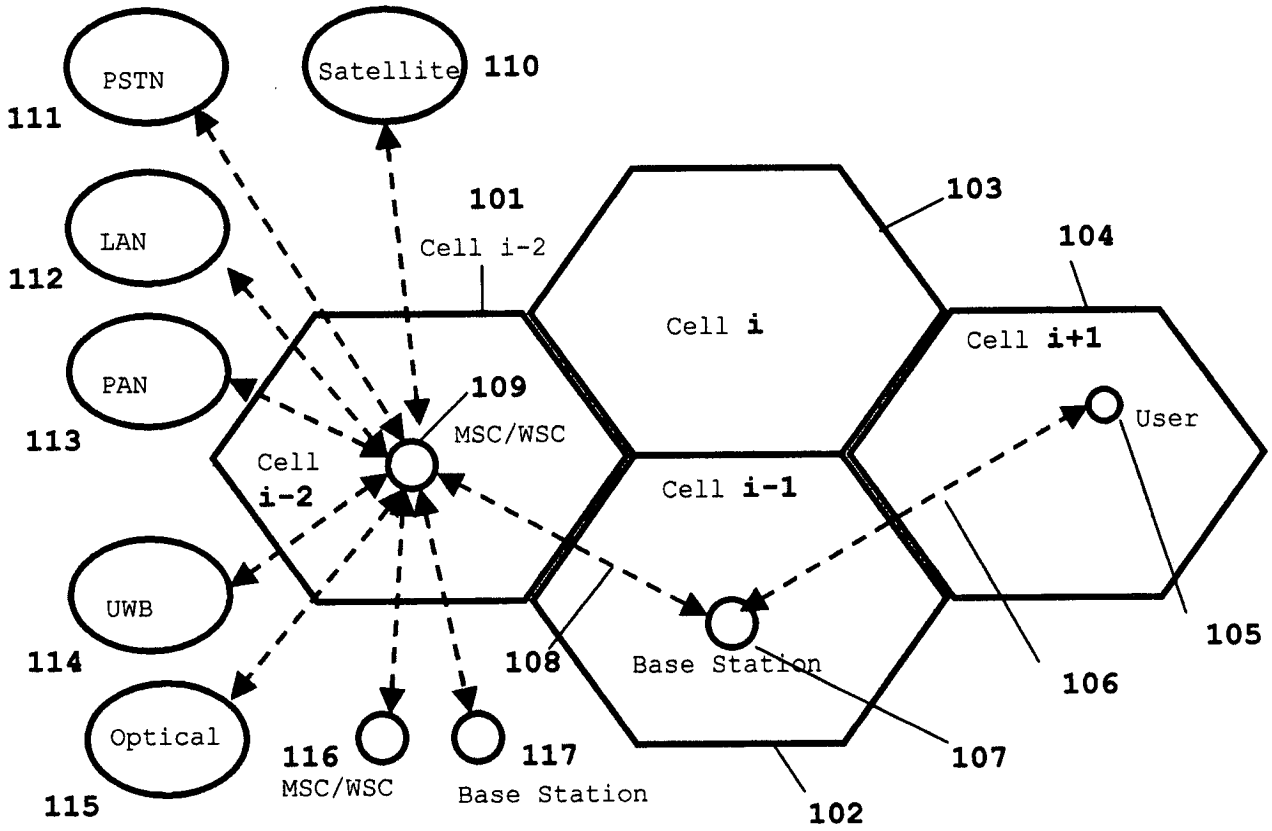

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FIG. 2 Real Walsh CDMA Encoding

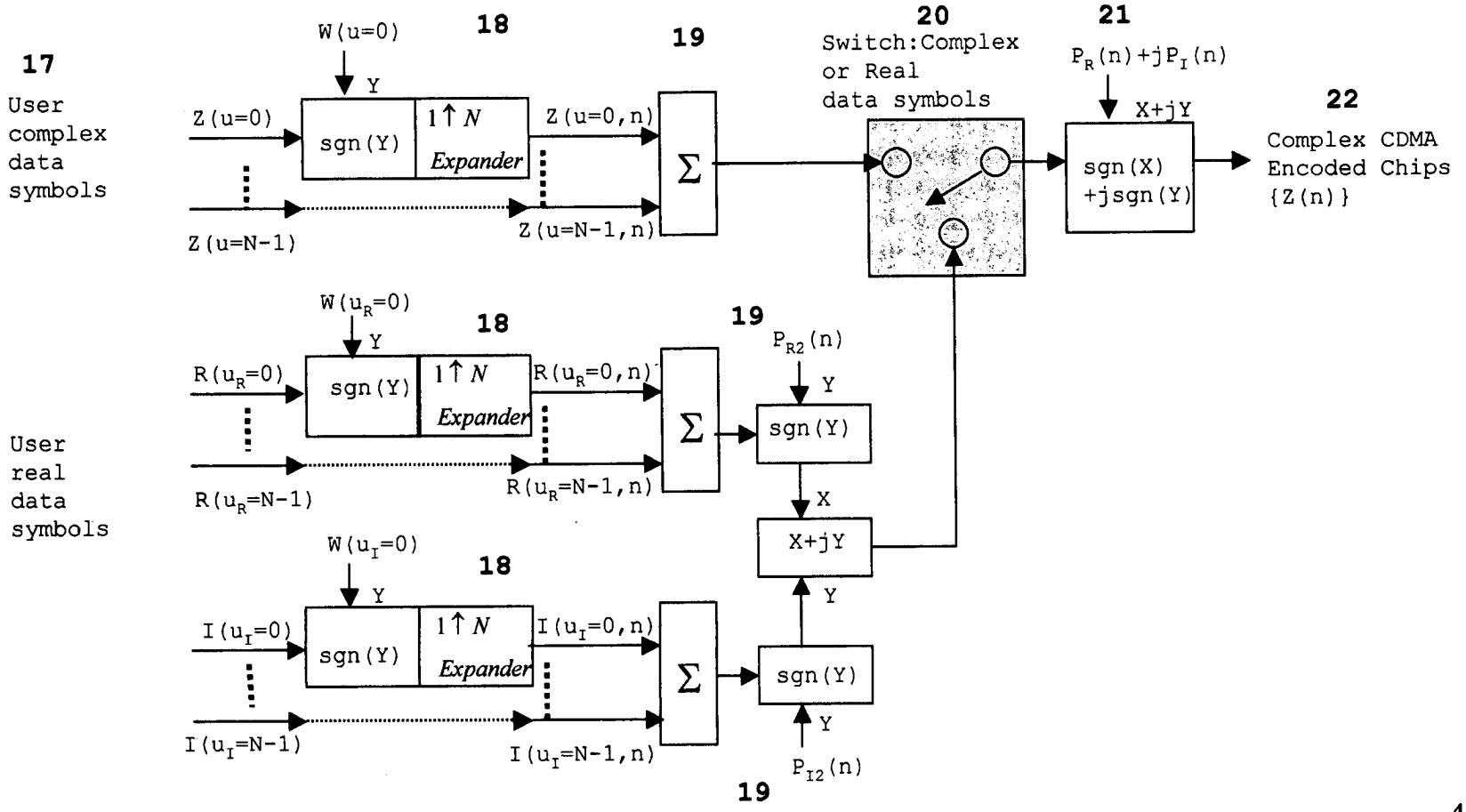

FIG. 2 CDMA Transmit Signal Processing

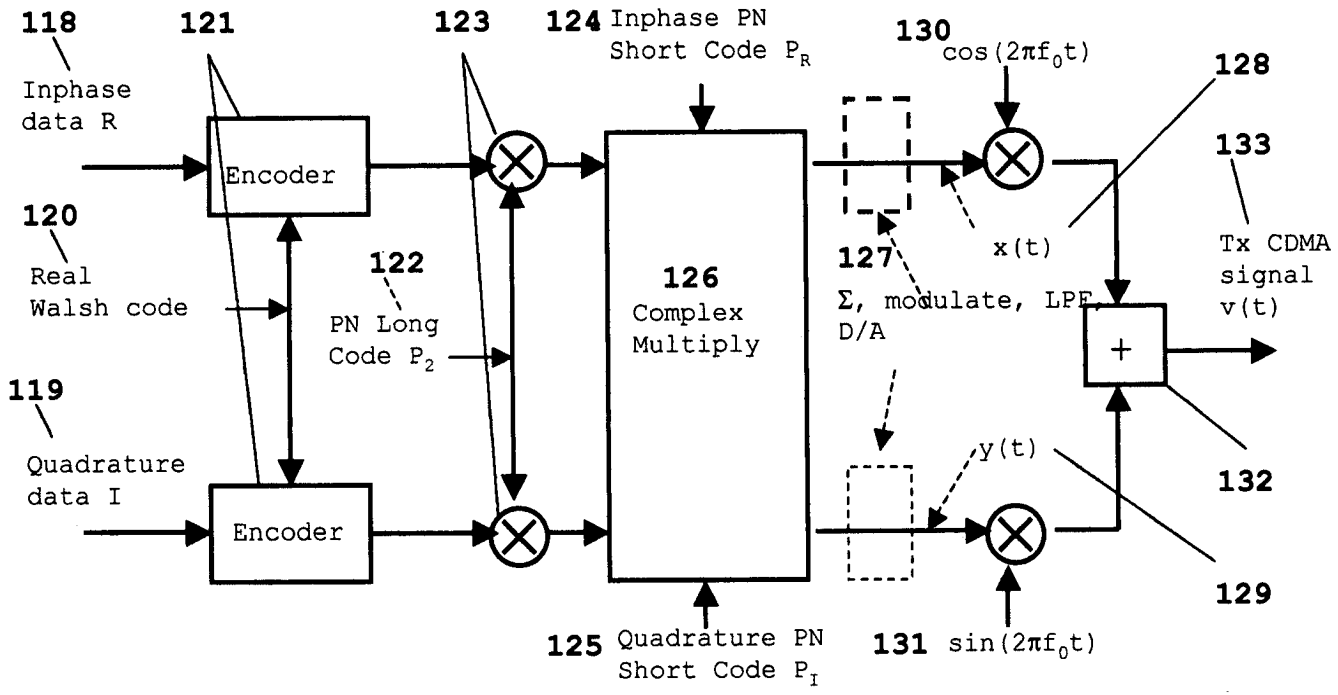

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FIG. 3 CDMA Receiver Block Diagram

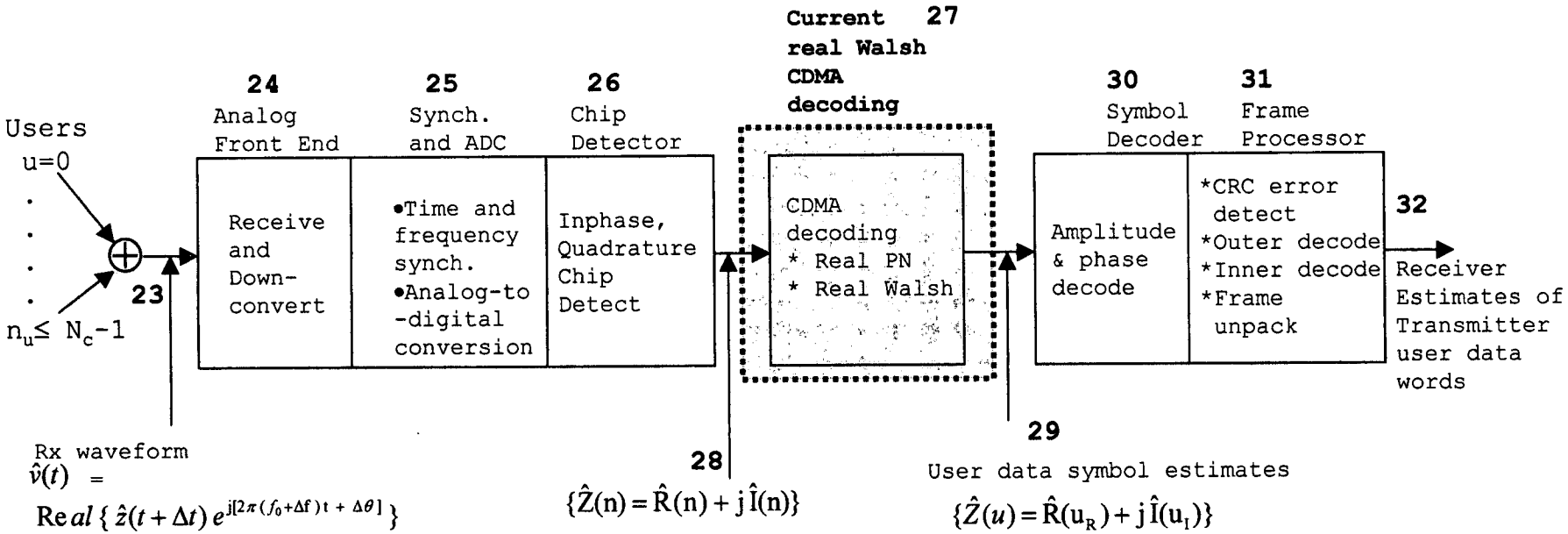

FIG. 3 CDMA Receive Signal Processing

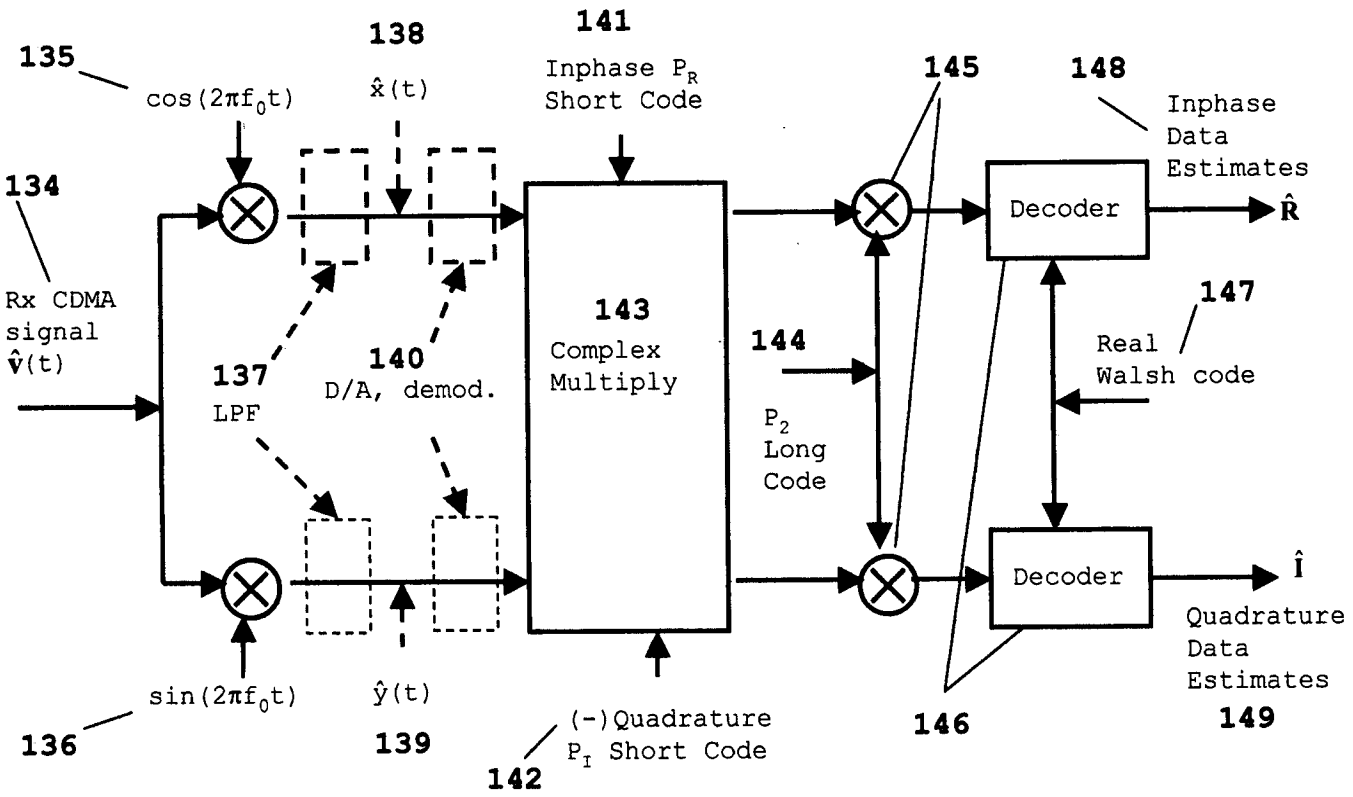

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FIG. 4 Real Walsh CDMA Decoding

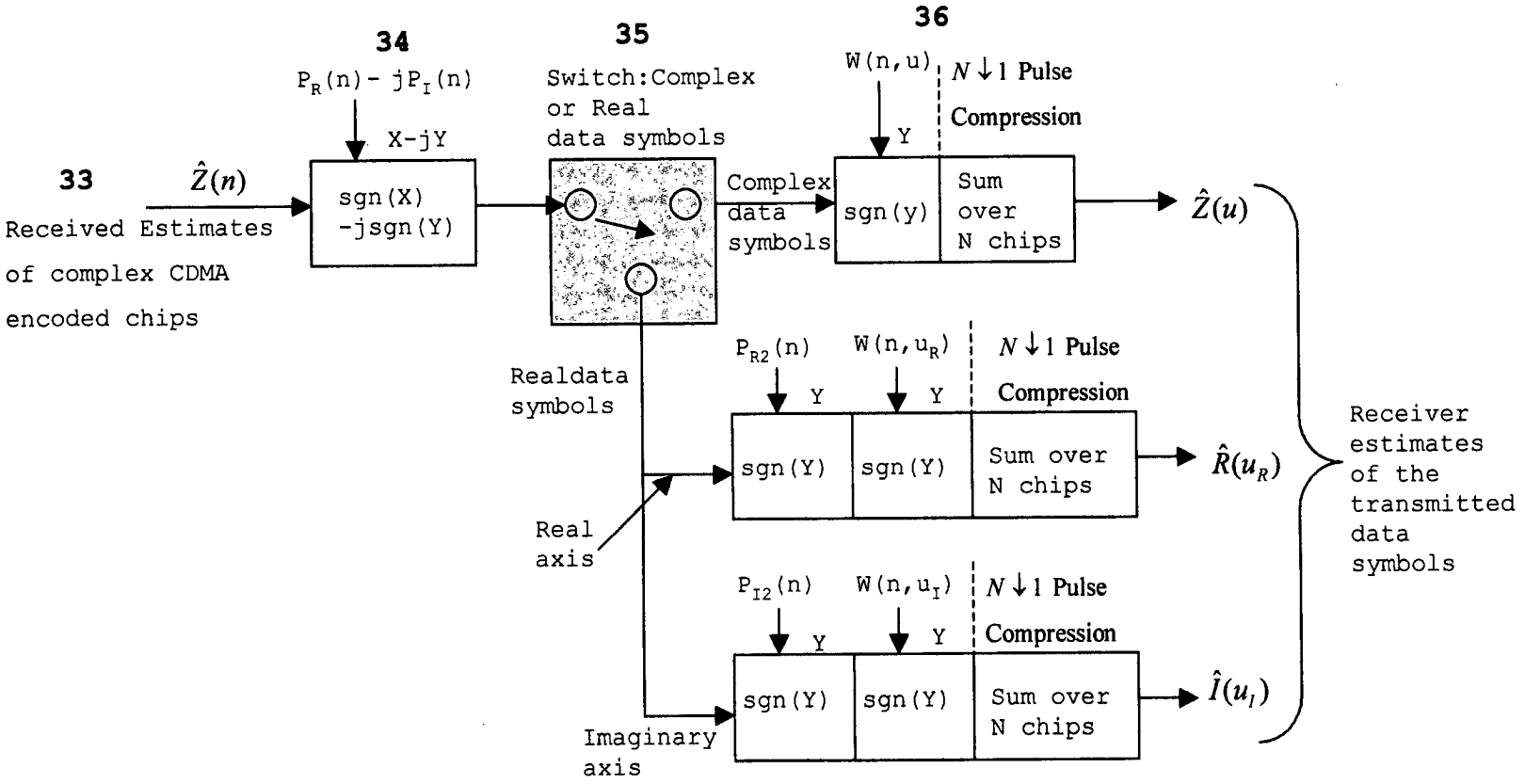

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FIG. 5 Correlation of Fourier Codes with DFT Codes for N=32

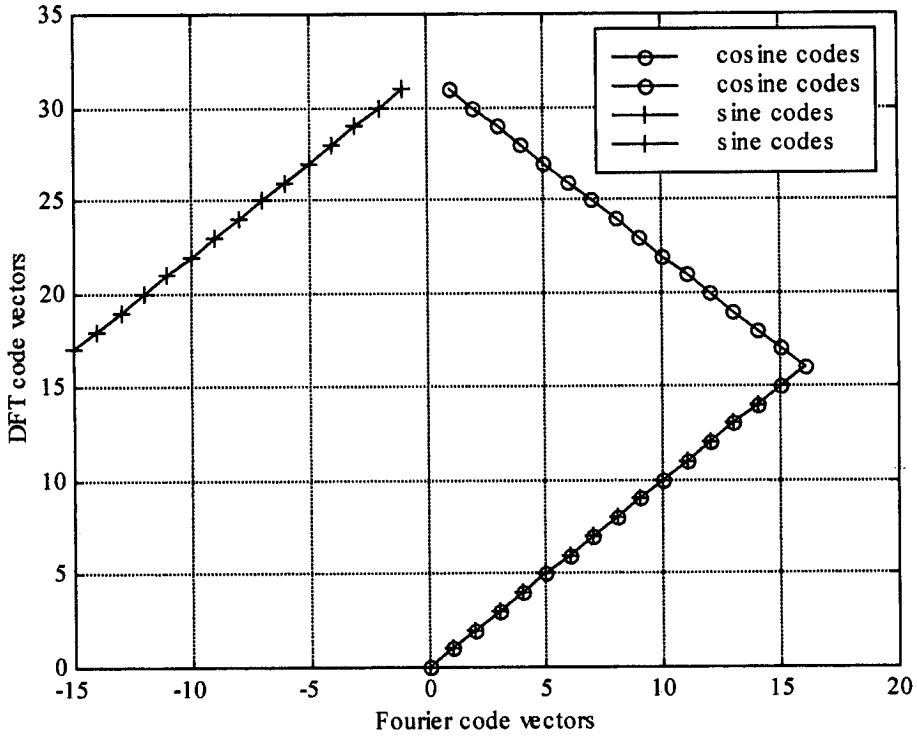

FIG. 5A Hybrid Walsh Implementation Algorithm

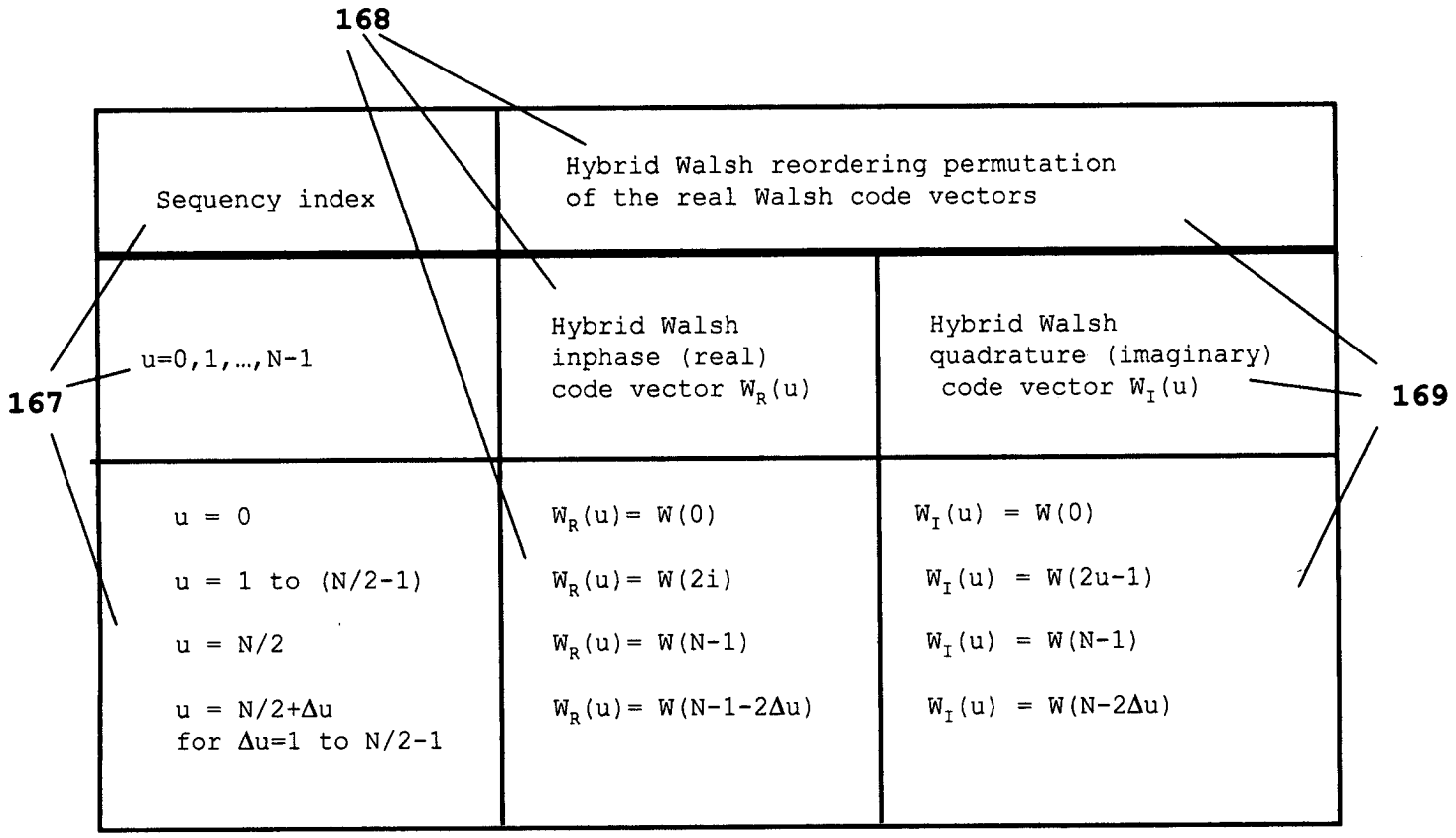

FIG. 5B Hybrid Walsh Implementation Algorithm

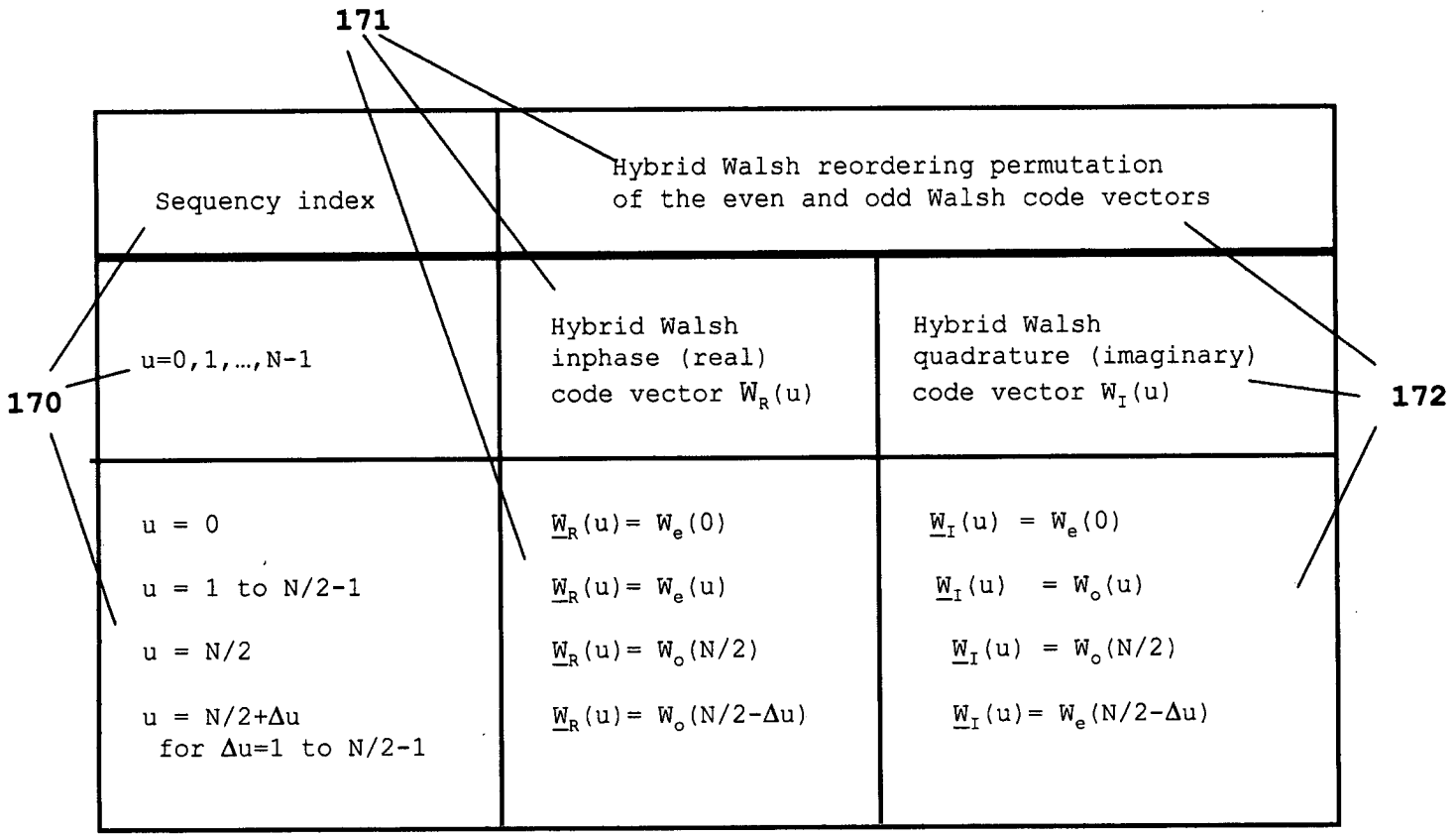

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FIG. 6 Complex Walsh CDMA Encoding

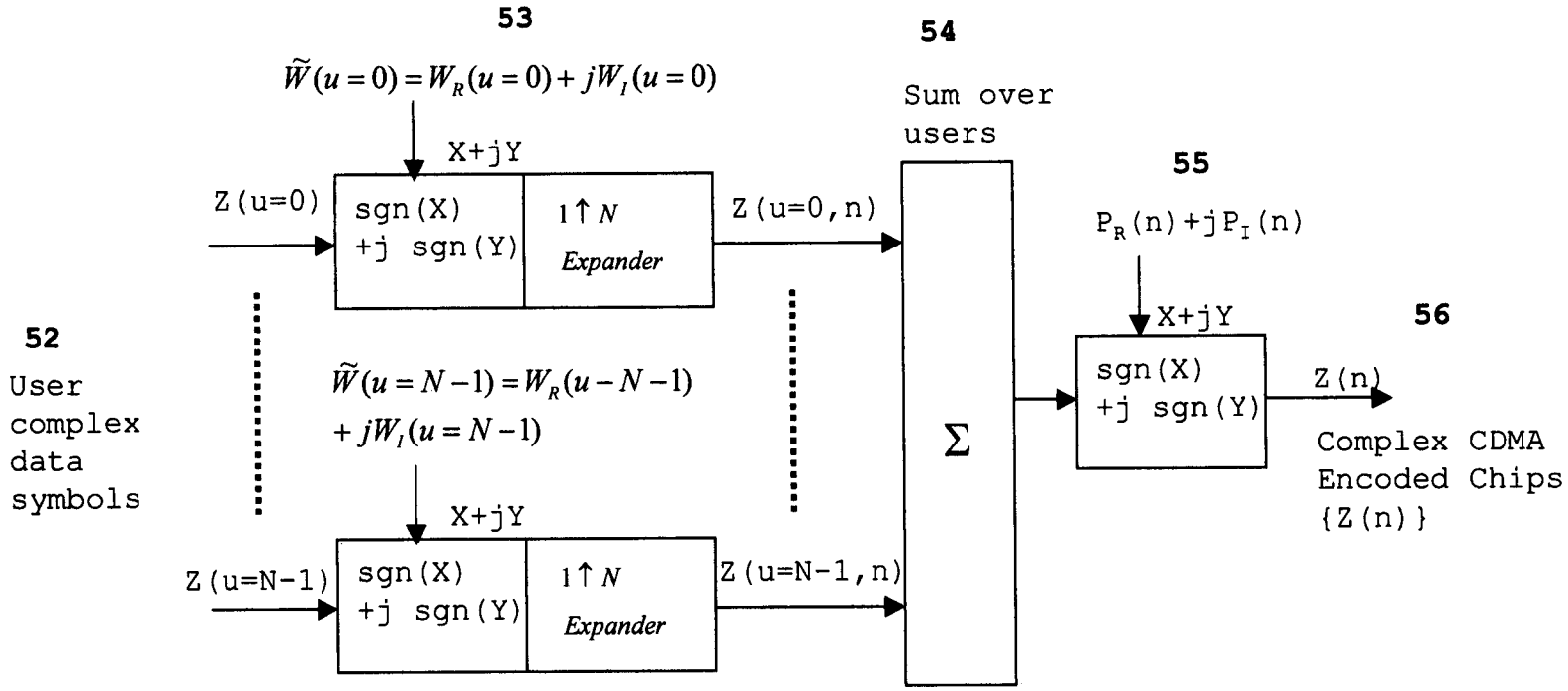

FIG. 6 Hybrid Walsh Transmit Signal Processing

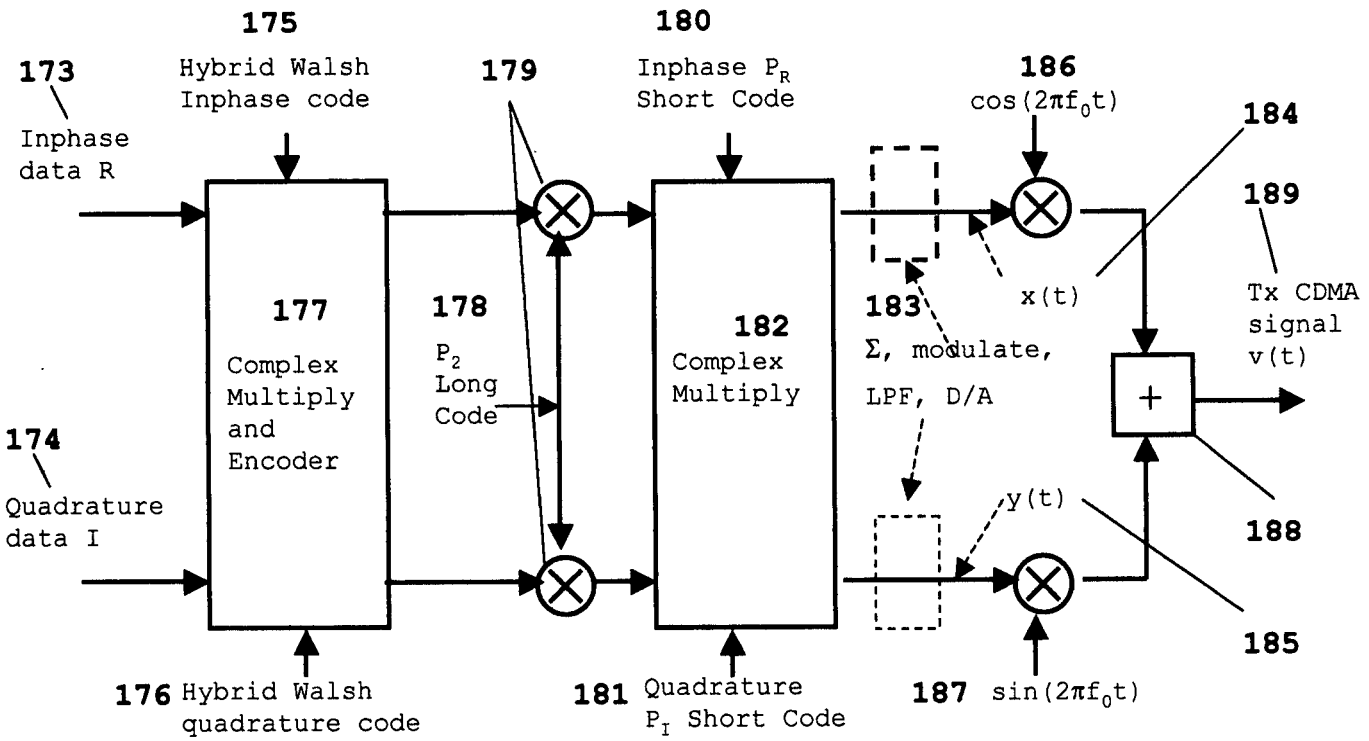

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FIG. 7 Complex Walsh CDMA Decoding

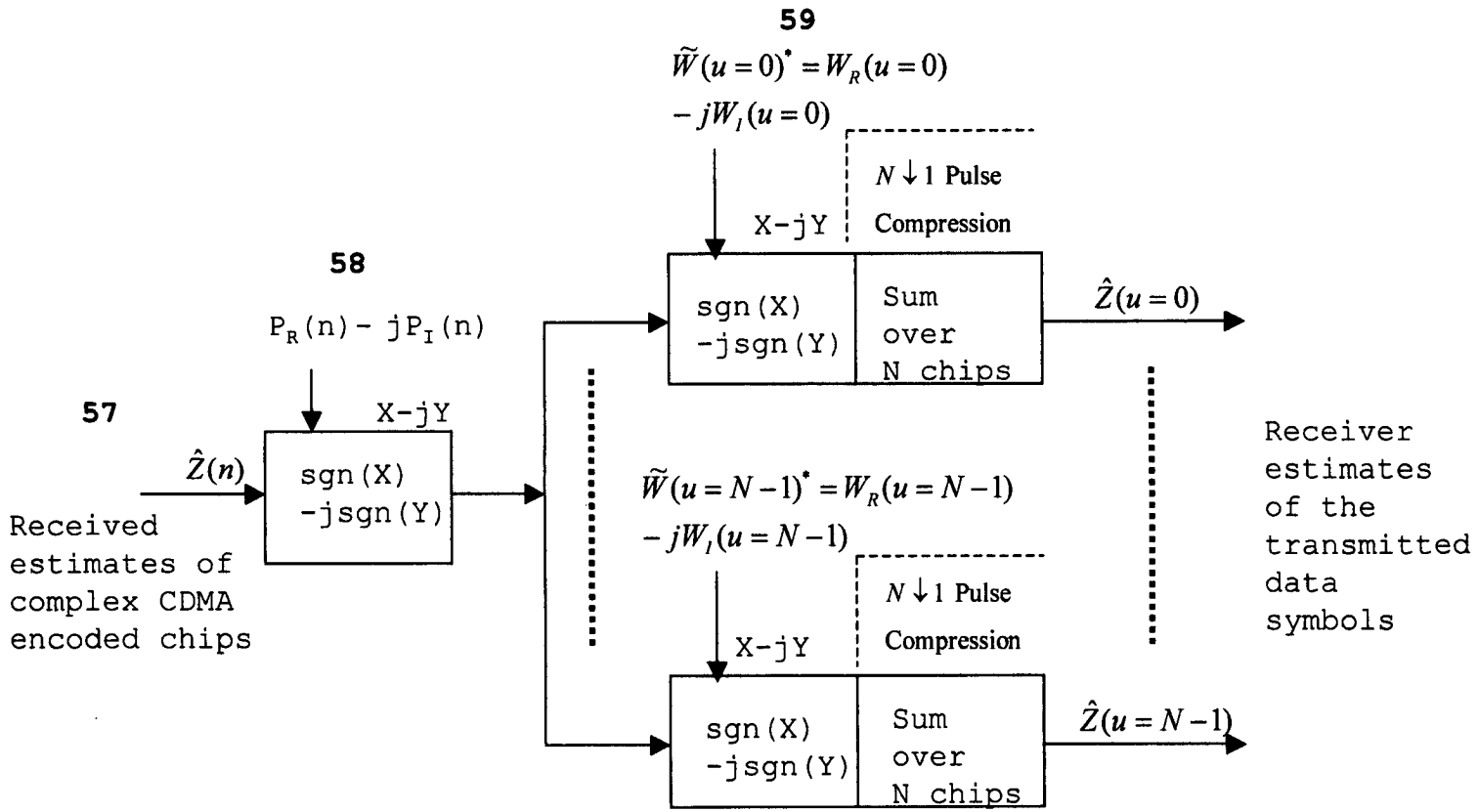

FIG. 7 Hybrid Walsh Receive Signal Processing